

Datasheet for ABIN7554927

PDE4A Protein (AA 1-886) (His tag)



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Overview

Quantity:	1 mg
Target:	PDE4A
Protein Characteristics:	AA 1-886
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE4A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PDE4A Protein expressed in mammalian cells.
Sequence:	<p>MEPPTVPSESLSLSLPGPREGQATLKPPPQHLWRQPRTPIRIQQRGYSDSAERAERERQ</p> <p>PHRPIERADAMDTSDRPGLRTTRMSWPSSFHGTGTGSGGAGGGSSRRFEAENGPTPSPGR</p> <p>SPLDSQASPGLV LHAGAATSQRRESFLYRSDSDYDMSPKMSRNSSVTSEAHAEDLIVTP</p> <p>FAQVLASLRSVRNFSLLTNVPVPSNKRSLGGPTPVCKATLSEETCQQLARETLEELDW</p> <p>CLEQLETMQTYRSVSEMASHKFKRMLNRELTHLSEMSRSGNQVSEYISTTFLDKQNEVEI</p> <p>PSPTMKEREKQQAPRPRPSQPPPPVPHLQPMSQITGLKKLMHSNSLNNSNIPRFGVKTD</p> <p>QEELLAQELENLNKWGLNIFCVSDYAGGRSLTCIMYMIFQERDLLKKFRIPVDTMVTYML</p> <p>TLEDHYHADVAYHNSLHAADVLQSTHVLLATPALDAVFTDLEILAALFAAAIHDVDHPGV</p> <p>SNQFLINTNSELALMYNDES VLENHHLAVGFKLLQEDNCDIFQNLSKRQRQSLRKMVIDM</p> <p>VLATDMSKHM TLLADLKTMTVETKKVTSSGVLLLDNYSDRIQVLRNMVHCA DLSNPTKPLE</p> <p>LYRQWTDRIMAEFFQQGDRE RERGMEISPMCDKHTASVEKSQVGFIDYIVHPLWETWADL</p>

VHPDAQEILD TLEDNRDWYY SAIRQSPSP PEEESRGPGH PPLPDKFQFE LTLEEEEEEE
ISMAQIPCTA QEALTAQGLS GVEEALDATI AWEASPAQES LEVMAQEASL EAELEAVYLT
QQAQSTGSAP VAPDEFSSRE EFVVAVSHSS PSALALQSPL LPAWRTLVS EHAPGLPGLP
STAAEVEAQR EHQAARKRACS ACAGTFGEDT SALPAPGGGG SGGDPT **Sequence without tag.**

The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

PDE4A

Alternative Name:

PDE4A ([PDE4A Products](#))

Background:

3',5'-cyclic-AMP phosphodiesterase 4A (EC 3.1.4.53) (DPDE2) (PDE46) (cAMP-specific phosphodiesterase 4A), FUNCTION: Hydrolyzes the second messenger 3',5'-cyclic AMP (cAMP), which is a key regulator of many important physiological processes.
{ECO:0000269|PubMed:11566027, ECO:0000269|PubMed:2160582}., FUNCTION: [Isoform 1]: Efficiently hydrolyzes cAMP. {ECO:0000269|PubMed:11306681, ECO:0000269|PubMed:15738310}., FUNCTION: [Isoform 2]: Efficiently hydrolyzes cAMP.

Target Details

{ECO:0000269|PubMed:15738310}., FUNCTION: [Isoform 3]: Efficiently hydrolyzes cAMP. The phosphodiesterase activity is not affected by calcium, calmodulin or cyclic GMP (cGMP) levels. Does not hydrolyze cGMP. {ECO:0000269|PubMed:7888306}., FUNCTION: [Isoform 4]: Efficiently hydrolyzes cAMP. {ECO:0000269|PubMed:9677330}., FUNCTION: [Isoform 6]: Efficiently hydrolyzes cAMP. {ECO:0000269|PubMed:11306681, ECO:0000269|PubMed:15738310, ECO:0000269|PubMed:17727341}., FUNCTION: [Isoform 7]: Efficiently hydrolyzes cAMP. {ECO:0000269|PubMed:18095939}.

Molecular Weight: 98.1 kDa

UniProt: [P27815](#)

Pathways: [cAMP Metabolic Process](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months